



19J6

## MEDIUM-MU TWIN TRIODE

MINIATURE TYPE

19J6

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathode:

Voltage. . . . . 18.9 . . . . . ac or dc volts

Current. . . . . 0.15 . . . . . amp

Direct Interelectrode Capacitances (Each unit, approx.):<sup>0</sup>Grid to Plate. . . . . 1.5 . . . . .  $\mu\text{f}$ Grid to Cathode. . . . . 2.0 . . . . .  $\mu\text{f}$ Plate to Cathode. . . . . 0.4 . . . . .  $\mu\text{f}$ <sup>0</sup> With no external shield.**Mechanical:**

Mounting Position. . . . . Any

Maximum Overall Length. . . . . 2-1/8"

Maximum Seated Length. . . . . 1-7/8"

Length, Base Seat to Bulb Top (excluding tip) 1-1/2"  $\pm$  3/32"

Maximum Diameter. . . . . 3/4"

Bulb . . . . . T-5-1/2

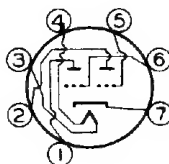
Base . . . . . Small-Button Miniature 7-Pin

Basing Designation for BOTTOM VIEW. . . . . 7BF

Pin 1 - Plate of  
Triode No. 2Pin 2 - Plate of  
Triode No. 1

Pin 3 - Heater

Pin 4 - Heater

Pin 5 - Grid of  
Triode No. 1Pin 6 - Grid of  
Triode No. 2

Pin 7 - Cathode

AMPLIFIER - Class A<sub>1</sub>

Values are for each unit

**Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE. . . . . 300 max. volts

PLATE DISSIPATION. . . . . 1.5 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . . . . 90 max. volts

Heater positive with respect to cathode. . . . . 90 max. volts

**Characteristics:**

Plate Voltage. . . . . 100 . . . volts

Cathode-Bias Resistor<sup>▲</sup>. . . . . 50<sup>◆</sup> . . . ohms

Amplification Factor. . . . . 38

Plate Resistance. . . . . 7100 . . . ohms

Transconductance. . . . . 5300 . . .  $\mu\text{mhos}$ 

Plate Current. . . . . 8.5 . . . ma

**Maximum Circuit Values (for maximum rated conditions):**

Grid-Circuit Resistance:

For cathode-bias operation. . . . . 0.5 max. megohm

<sup>▲</sup>, <sup>◆</sup>: See next page.

NOV. 15, 1948

TUBE DEPARTMENT

TENTATIVE DATA

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

19J6



19J6

## MEDIUM-MU TWIN TRIODE

MIXER SERVICE*Values are for each unit***Maximum Ratings, Design-Center Values:**

PLATE VOLTAGE . . . . .	300 max.	volts
PLATE DISSIPATION . . . . .	1.5 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode. .	90 max.	volts
Heater negative with respect to cathode. .	90 max.	volts

**Characteristics:**

Plate Voltage. . . . .	150 . .	volts
Cathode-Bias Resistor <sup>▲</sup> . . . . .	810 <sup>†</sup> . .	ohms
Oscillator Peak Voltage. . . . .	3 . .	volts
Plate Resistance . . . . .	10200 . .	ohms
Conversion Transconductance. . . . .	1900 . .	μmhos
Short-Circuit Input Conductance		
at 100 Mc . . . . .	96 . .	μmhos
Plate Current. . . . .	4.8 . .	ma

**Maximum Circuit Values (for maximum rated conditions):****Grid-Circuit Resistance:**

For cathode-bias operation . . . . .	0.5 max.	megohm
--------------------------------------	----------	--------

<sup>▲</sup> operation with fixed bias is not recommended.<sup>◆</sup> value is for both units operating at the specified conditions.<sup>†</sup> For one unit, with other unit not operating. When both units are operating, the value of cathode-bias resistor is determined by the total cathode current of both units.

NOV. 15, 1948

TUBE DEPARTMENT

TENTATIVE DATA

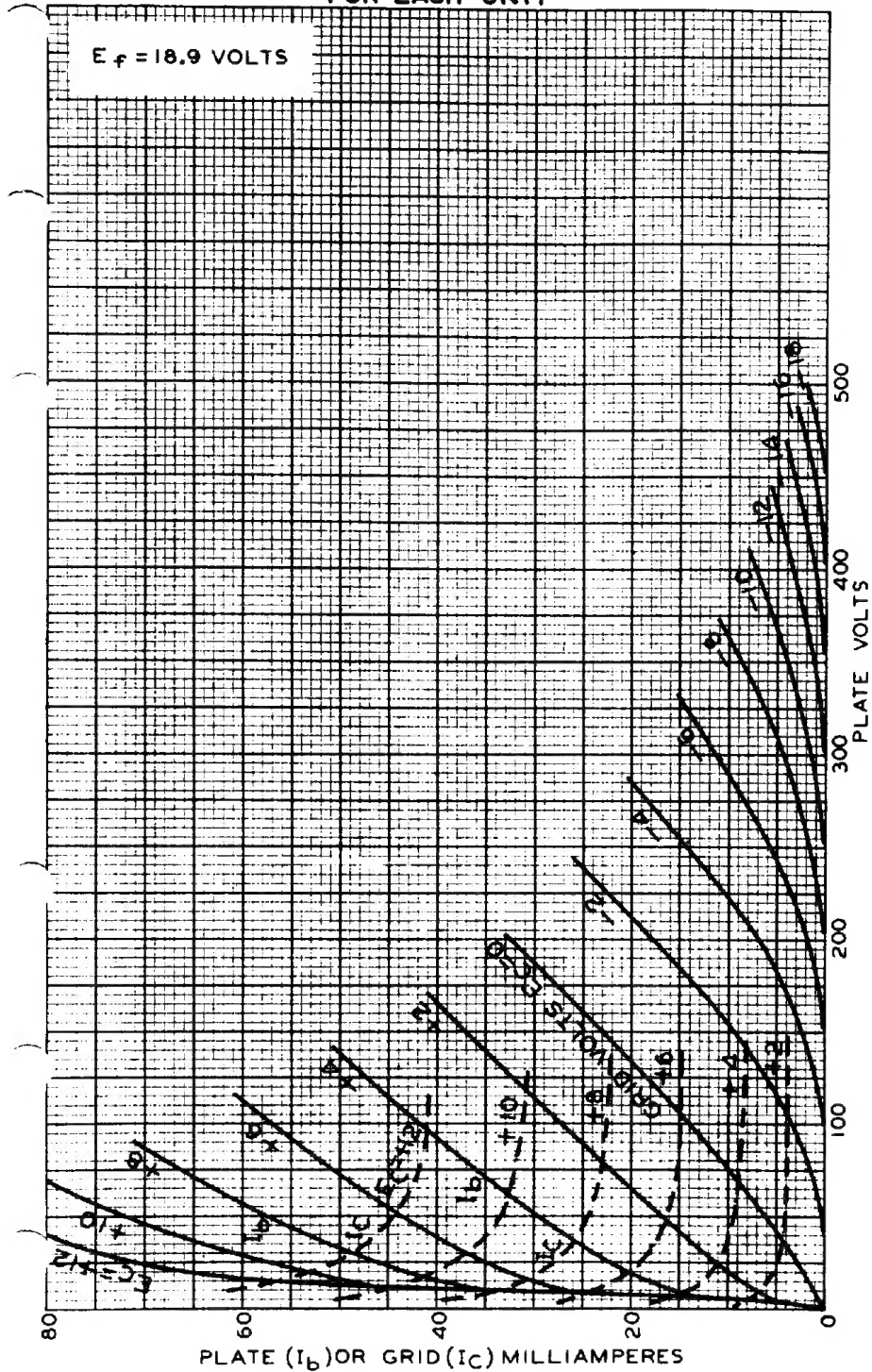
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY



19J6

19J6

# AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



AUG. 18, 1948

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

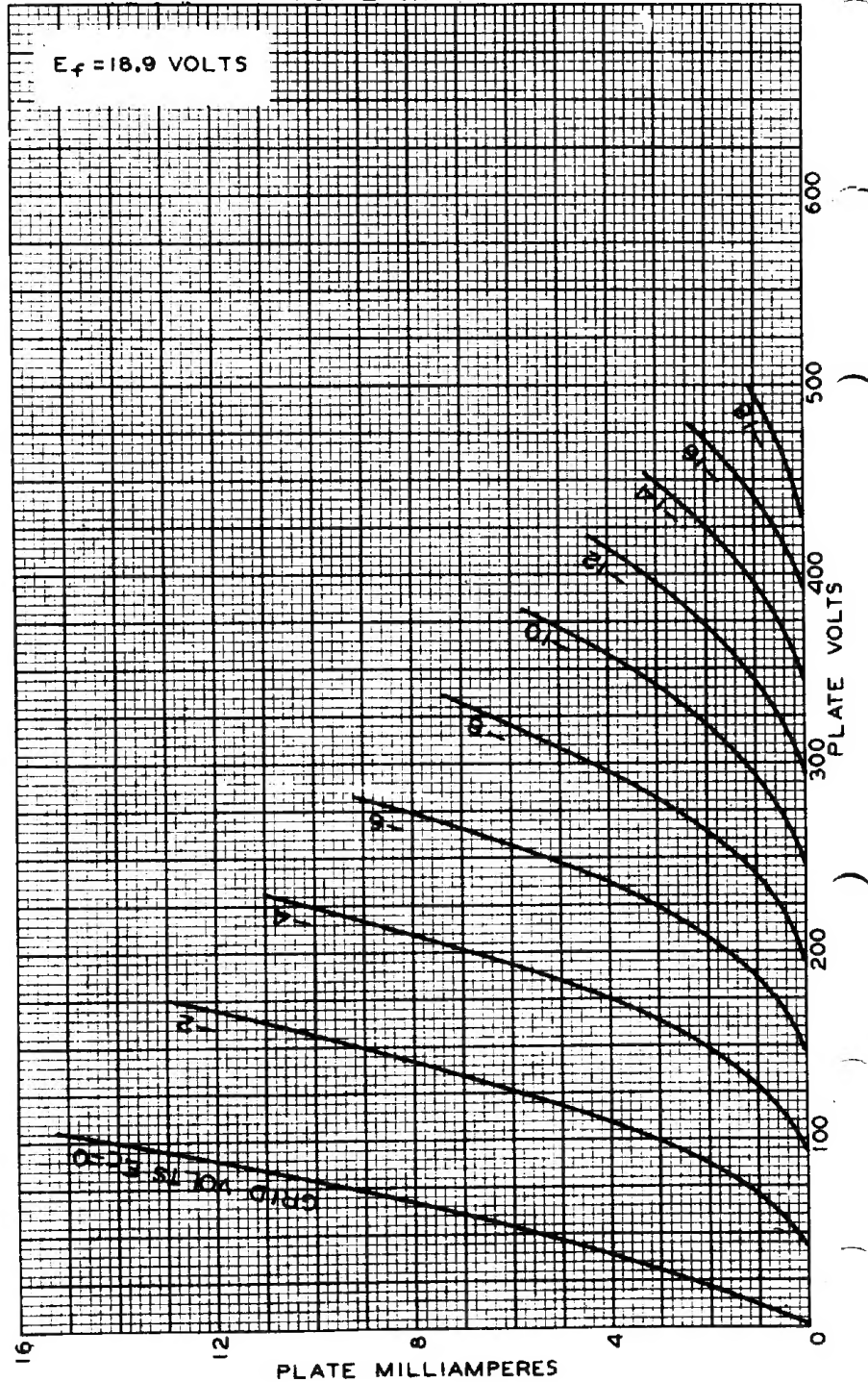
92CM-7061

19J6



19J6

# AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



AUG. 18, 1948

TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-7060